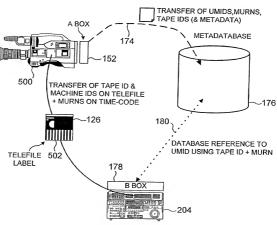
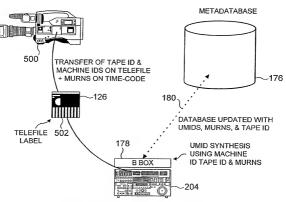
UMID ASSIGNMENT FROM PROXY & TAPE VOLUME DATA



UMID ASSIGNED IN A BOX (OR CAMCORDER) AND TRANSFERRED TO DB

FIG. 1

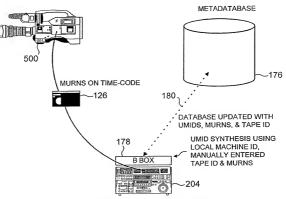
UMID ASSIGNMENT FROM PROXY & TAPE VOLUME DATA



UMID ASSIGNED IN B BOX USING CAMCORDER MACHINE ID, TAPE ID & MURNS

FIG. 2

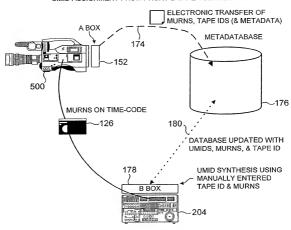
UMID ASSIGNMENT FROM PROXY & TAPE VOLUME DATA



UMID ASSIGNED IN B BOX USING LOCAL MACHINE ID. MANUALLY ENTERED TAPE ID & MURNS

FIG. 3

UMID ASSIGNMENT FROM PROXY & TAPE VOLUME DATA



UMID ASSIGNED IN B BOX USING TAPE ID & MURNS

FIG. 4

UMID ASSIGNMENT FROM PROXY & TAPE VOLUME DATA

| - | | USER | 4 BYTES | | 7 | - [| | 7 | | - | _ | | O - | + (i | ì | | | | |
|-------------------------|-------------------------------|-------------------------|-----------------|--|----------------------------|-------------|-------------------|------------|------------------|--------------------|------------------------|---|-----------------------------|------------------|-----------------------|-------------------------------|---|------------------------------|-----------------------------------|
| | | ORG | 4 4 BYTES BYTES | | | MACHINE | NODE | | 6 BYTES | | | | VALUES PASSED | STORE (TELEFILE) | | | | | |
| | 32 BYTES | COU- NTRY | BYTES | CLIP | JMBER | | | | _ | | | | VALUE | STORF | | | | | |
| | SIGNATURE METADATA (32 BYTES) | SPATIAL CO-ORDINATES | 12 BYTES | ONE VALUE SET PER CLIP | MATERIAL NUMBER | - | IIME SNAP IRNDI | | 8 BYTES 2 8YTES | | | VALUES CAN BE GENERATED AT INGEST | | | טט | | ر ت آ | | |
| ID(64 BYTES) | 1 1 | TIME / DATE | 8 BYTES | | / - | | 1 | | | | _ | · | | | · | , | | | , |
| EXTENDED UMID(64 BYTES) | | NUMBER | TES / | / | GESTED | VALUE (hex) | 190 | 0Ch | 2Bh | 34h | 01h | 01h | 01h | 01h | 01h | 01h | 01, 02, 03, 04h | XXh (SEE TEXT) | |
| | 2 BYTES) | MATERIAL NUMBER | 16 BYTES | A THE STATE OF THE | ON MATERIAL BEING INGESTED | _ | IER | | SO | IPTE | ARIES | CTIONARIES | Y NUMBER | ER | VION | ENTIFIERS | , DATA, GROUP) | N METHOD | |
| | BASIC UMID (32 BYTES) | L NST No. | 1 3 BYTES | Fold | ON MA | DESCRIPTION | OBJECT IDENTIFIER | LABEL SIZE | DESIGNATION: ISO | DESIGNATION: SMPTE | REGISTRY: DICTIONARIES | 'ADATA DI | ICTIONAR | VERSION NUMBER | CLASS: IDENTIFICATION | JNIQUEID | RE, AUDIO | RCREATIC | ULT = 04h |
| | BAS | UNIVERSAL LABEL | 12 BYTES | | <u> </u> | DES | OBJEC | Ą | DESIG | DESIGN | REGISTR | REGISTRY: METADATA DICTIONARIES | STANDARD: DICTIONARY NUMBER | VERS | CLASS: I | SUB-CLASS; UNIQUE IDENTIFIERS | TYPE: UMID(PICTURE, AUDIO, DATA, GROUP) | TYPE: NUMBER CREATION METHOD | UMID TYPE (BYTE 11) DEFAULT = 04h |
| | | NS | | | | BYTE No. | - | 2 | 3 | 4 | 9 | 9 | 7 | 8 | 6 | 10 | 11 | 12 | UMID TYPE |

CREATION TYPE (BYTE 12) SET LOCALLY AT INGEST

PRINCIPLE OF UMID PROXY & TAPE VOLUME DATA (1)
MID PROXY = MURN (MATERIAL UNIQUE REFERENCE No.)

| | ⋖ | | Δ | | <u>0</u> | | |
|---|-------|---|-----------------------|-----|--|-----------------------------|---|
| UMID PROXY = MURN (MATERIAL UNIQUE REFERENCE No.) | FILE) | TAPE BLANK TAPE INSERTED IN CAMCORDER (A) | TAPE LABEL (TELEFILE) | - ! | MURN = 5 TAPE LABEL (TELEFILE) MURN = 5 SMPTE MACHINE NODE # (OR MACHINE ID PROXY) = A UNIQUE TAPE ID (PRE-ASSIGNED) | TAPE MURN=1 =2 =3 MURN=4 =5 | PARTLY RECORDED TAPE EJECTED FROM CAMCORDER (A) |

-IG. 6

| (2) |
|---------|
| DATA |
| LUME |
| 9 |
| TAPE |
| ∞ |
| PROXY |
| UMID |
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| ∢ | | <u>m</u> | | <u> </u> | | - |
|--------|---|---|--|---|--|---|
| IFILE) | TAPE MURN=1 = 2 = 3 MURN=4 = 5 PARTLY RECORDED TAPE INSERTED IN ANOTHER CAMOORDER (B) | MURN = 5 **SMPTE MACHINE NODE # (OR MACHINE ID PROXY) = A **TAPE LABEL (TELEFILE) | TAPE MURN=1 =2 =3 MURN=4 =5 =6 =7 FURTHER RECORDINGS ON TAPE INSERTED IN CAMCORDER (B) | SMPTE MAGHINE NODE # OR MACHINE ID PROXY) = B MURN = 5 MURN = 7 SMPTE MACHINE NODE # (OR MACHINE ID PROXY) = A TAPE LABEL (TELEPLE) | TAPE MURN=1 =2 =3 MURN=4 =5 =6 =7 PARTLY RECORDED TAPE EJECTED FROM CAMCORDER (8) | |

:IG: 7

| | ∢ | - | <u> </u> | ! ! ! | O | |
|--|--|--|--|-----------------|---|--------------------------------------|
| PRINCIPLE OF UMID PROXY & TAPE VOLUME DATA (3) | SMPTE MACHINE NODE # TOR MACHINE ID PROXY) = C | TAPE MURN=1 = MURN=8 6 =7 PARTIAL ERASURE IN MACHINE C | SMPTE MÄGHINE NÖDE # (ÖR MAĞHINE ID PRÖXY) = C | 8 - | TAPE LABEL (TELEFILE) TAPE [TELEFILE] MURN=0 TAPE [TELEFILE] | FULL ERASURE IN MACHINE C (OPTION 2) |

-1G. 8

UMID PROXY & SIMPLIFIED TAPE EDITING RULES

MURN TREATS ALL TAPE CONTENT AS GROUPS (V + A...A_I), EVERY TAPE EDIT EVENT GENERATES A NEW MURN, METADATABASE MANAGES TRUE UMID INFORMATION USING UNIQUE TAPE ID & MURN

| AUDIO 2 UMID = 123 | VIDEO UMID = 123 | | UMID = 124 | |
|----------------------|------------------|-----------|------------|-------------------------------|
| = 2 = 3 MURN=4 MU | 1 (UMID = 123) | | | |
| = 2 = 3 MURN = 4 MU | 2 UMID = 123 | | | MID = 126 |
| =2 =3 MURN=4 MU | | • | | |
| | - | = 3 | MURN = 4 | MURN = 5 |
| | TAPE LABEL | (TELEFILI | E) | UNIQUE TAPE ID (PRE-ASSIGNED) |

<u>E</u>

الونية

18

~A2 ~A1 - UNIQUE TAPE ID (PRE-ASSIGNED) UMID(V) = 123, 124 UMID(A1) = 123 UMID(A2) = 123 UMID(V) = 124 UMID(A1) = 125 UMID(A2) = 123 UMID(A1) = 123UMID(A2) = 123UMID(A1) = 123UMID(A2) = 123 UMID(V) = 123UMID(V) = 124UMID PROXY & SIMPLIFIED TAPE EDITING RULES -MURN = 2 - MURN = 3 -MURN = 4 -MURN = 1 UMID = 126 MURN = 5 TAPE ID = ABCD -EDITED TAPE 111111 UMID = 125 MURN = 4 UMID = 124 TAPE LABEL 176 ဗ = 2 UMID = 123 FIG. 10 AUDIO 1 UMID = 123 AUDIO 2 UMID = 123 TC UB MURN = 1 VIDEO

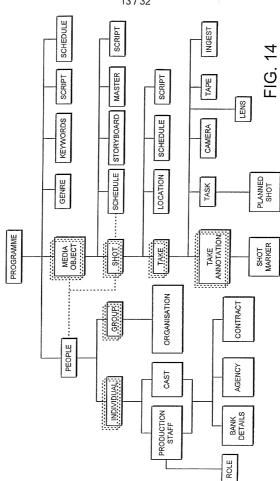
CARLEGES ALEGEN

UMID PROXY & SIMPLIFIED TAPE EDITING RULES INSERT EDIT WITH VTR ITSELF (VO OR SOUND EFFECT)

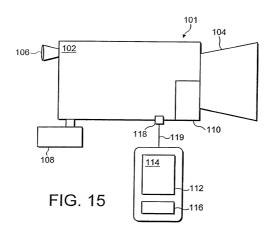
| | | | | | | | | | | Δ | | \neg | |
|--|------------------------------|------------|------------|------------|-----------------------------------|-------------|-----------------------------|----------------------------|-------------|------------|------------|---------------|--|
| | = UMID #0001 | TOIN | TAPEID | | FOF GROUP UMID | | = UMID #0001 | V, A1, A2, A4 VMD #0002 | TO OT TO OT | TAPEID | METADATA | | |
| SOUND EFFECT) | GROUP UMID # 01 = UMID #0001 | | | | THE EFFECTIVE SCOPE OF GROUP UMID | | GROUP UMID # 01 = UMID #000 | | | | | П 7 | |
| INSERT EDIT WITH VIR ITSELT (VO OR SOUND EFFECT) | | | | | | | | | | UMID #0001 | | UMID #01 (Gp) | |
| INSERT EUT WIT | UMID #0001 | UMID #0001 | UMID #0001 | UMID #0001 | UMID #0001 | Gp UMID #01 | UMID #0001 | UMID #0001 | 1000# OIMID | UMID #0002 | UMID #0001 | UMID #02 (Gp) | |
| | | | | | | | | | | UMID #0001 | | UMID #01 (Gp) | |
| | > | A1 | A2 | A3 | A4 | OMID | > | A1 | A2 | A3 | A4 | UMID | |

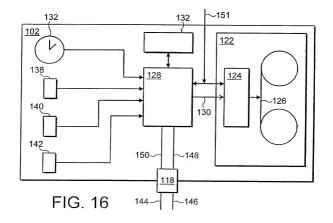
| PYTE BYTE |
|---|
| 4 BYTES |
| BYTES BYTES BYTES |
| 12 BYTES RES |
| 8 BYTES DUMID STRUCTU |
| 16 BYTES 8 BYTES BASIC AND EXTENDED UMID STRUCTURES |
| BYTES |
| |
| 12 BYTES |
| |





(





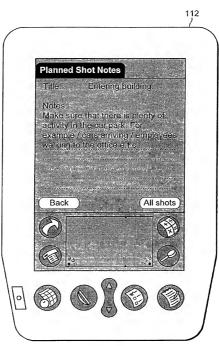


FIG. 17

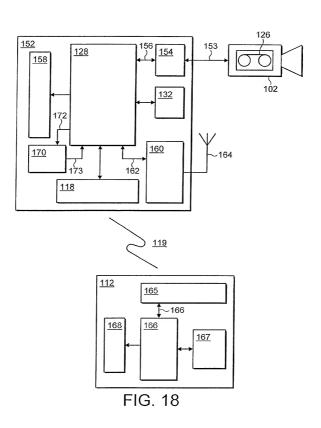
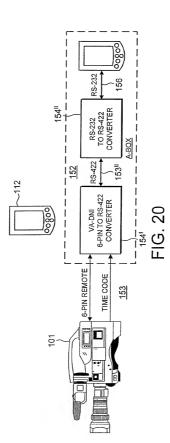
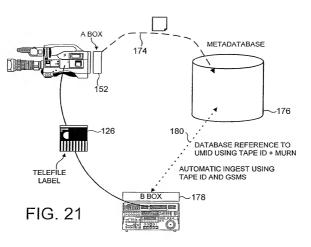


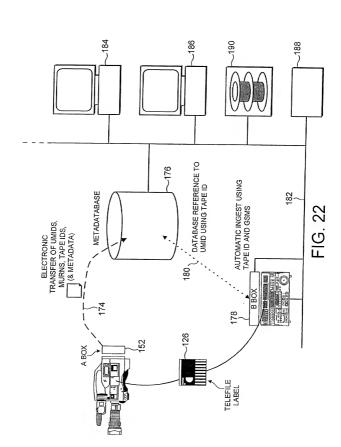


FIG. 19



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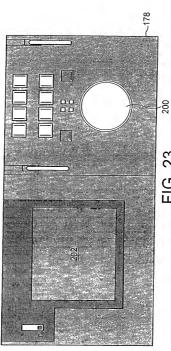
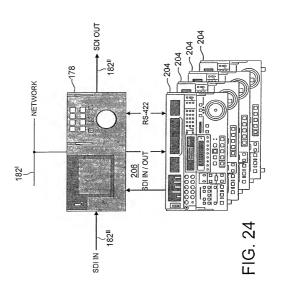
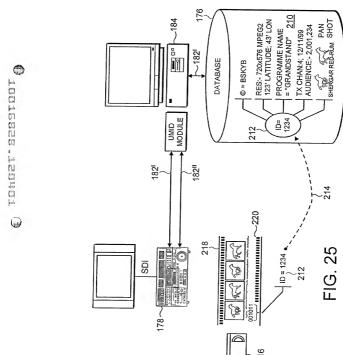
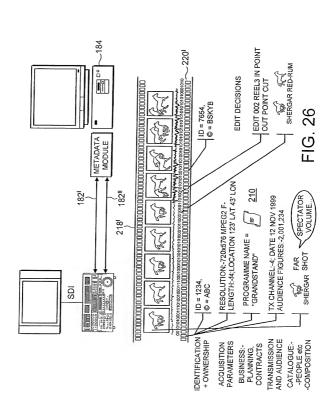
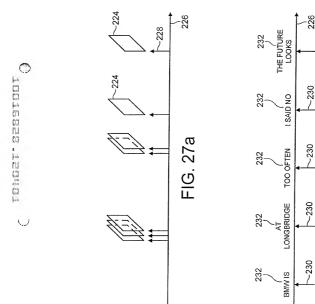


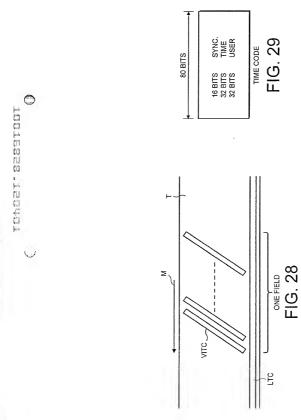
FIG. 23



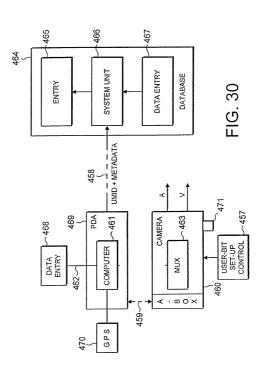


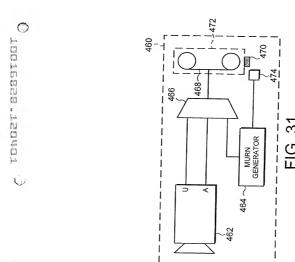


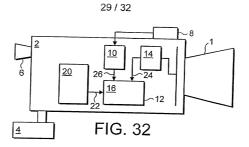


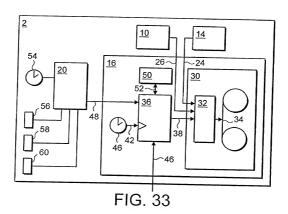


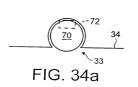


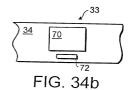


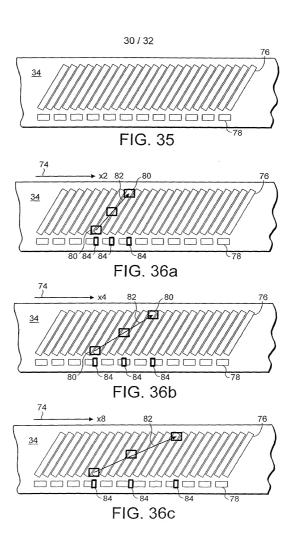


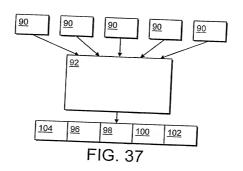












| 94 | 94 | 94 } | 94 } | 94 } | | | | | | | | | | | |
|---------|----|---------|---------|---------|----|---|---|---|----|---|----|---|---|----|---|
| 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 0 | 1 | 12 | |
| R | R | R | R | G | G | G | G | E | E | E | E | 0 | 1 | 2 | 3 |
| E | E | Е | E | R | R | R | R | N | N | N | N | 1 | 1 | 1 | 8 |
| D | D | D | D | E | Е | Е | Е | | | | 14 | - | 9 | 3 | |
| | | | | | | | | | | | | | | | |
| | 10 | 4 | | | 10 | 8 | | | 11 | 0 | | | | | |
| FIG. 38 | | | | | | | | | | | | | | | |

| X8 | R | R | R | R | R | R | R | R | E | E | E | E | E | E | T = | |
|----|----|---|---|---|---|---|-----|---|----------|----------|---|---|---|---|-----|---|
| X4 | G | G | G | G | R | R | R | R | E | E | E | E | E | _ | E | E |
| X2 | В | В | L | L | U | U | E | E | _ | - | - | | - | E | E | E |
| X1 | 0 | 1 | 1 | 1 | 9 | 9 | 1 | 3 | 2 | 8 | _ | - | | | | |
| 1 | тс | | • | 1 | | F | -10 | | тс 39 | لـــــــ | | | | | | |

